

BYBOCHKIN, Aleksey Mironovich; AMIRASLANOV, A.A., retsenzents; CHEERNYSHEV, G.B., inzh., retsenzents; PLOTNIKOV, N.I., kand.geol.-mineral. nauk, otv.red.; ROMANOVA, L.A., red.izd-va; SABITOV, A., tekhn. red.

[Principles of geology and prospecting] Osnovy geologii i razvedochnogo dela. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1960. 283 p. (MIRA 13:11)

1. Chlen-korrespondent ~~AN~~ SSSR (for Amiraslanov).
(Geology, Economic) (Prospecting)

BYBOCHKIN, A.M.

Dispersed elements in ferrous metal ores and a method of evaluating their reserves. Razved. i okh. nedr 26 no.9:1-6 S '60. (MIRA 15:7)

1. Ministerstvo geologii i okhrany nedr SSSR.
(Trace elements)

*Investigation
Mineral Reserves*

BY BOCHKIN, A.M.

13

PHASE I BOOK EXPLOITATION

SOV/5474

Terpigorev, A.M., Academician [deceased], Chairman of the Editorial Board, R.P. Kaplunov, Professor, Doctor of Technical Sciences, Deputy Chairman of the Editorial Board, Ye.F. Moskal'kov, Mining Engineer, V.V. Nedin, Professor, Doctor of Technical Sciences, Yu. V. Seledkov, Mining Engineer, O.O. Sosedov, Mining Engineer, and L.Ya. Tarasov, Mining Engineer. -

Spravochnik po gornorudnomu delu. t. 2: Podzemnyye raboty (Ore-Mining Industry Handbook. v. 2: Underground Operations) Moscow, Gosgortekhnizdat, 1961. 855 p. Errata slip inserted. 12,000 copies printed.

Scientific Eds. (Title page): A.M. Terpigorev, Academician, and R.P. Kaplunov, Professor, Doctor of Technical Sciences; Resp. Ed.; L. Ya. Tarasov; Eds. of Publishing House: M.M. Smirenskiy, and V.N. Partsevskiy; Tech. Ed.: V.L. Prozorovskaya, and M.A. Kondrat'yeva.

Card 1/18

Ore-Mining Industry (Cont.)

SOV/5474

PURPOSE: This handbook is intended for mining engineers and skilled personnel of the mining industry.

COVERAGE: Volume II of the handbook reviews various methods of underground mining and analyzes the basic principles underlying different types of ore mining operations. Parts I, VI, IX XI, and XV of this volume were written by L. Ya. Tarasov, Mining Engineer. L. Ye. Egel', Geological Engineer, also participated in writing Part I. Part II was written by A. M. Bybochkin, [Candidate of Geological and Mining Sciences] Part III by D. N. Ogloblin, Professor, Doctor of Technical Sciences, and M. G. Papazov, Candidate of Technical Sciences; Parts IV, V, and X were written by R. P. Kaplunov, Professor, Doctor of Technical Sciences; Part VII by V. V. Nedin, Professor, Doctor of Technical Sciences, and by Sh. I. Ibrayev, Docent, Candidate of Technical Sciences; Part VIII by N. N. Polyakov, Docent, Candidate of Technical Sciences (deceased) and by M. B. Udalkin, Mining Engineer; Part IX by A. M. Alyamskiy, Docent, Candidate

Card-2/18

Ore-Mining Industry (Cont.)

SOV/5474

Ch. IV. Characteristics of Rocks

43

Bibliography

52

PART II. SAMPLING

Ch. I. Purpose and Types of Sampling Operations

54

Ch. II. Sampling Methods

55

Ch. III. Sampling in Mine Workings and Boreholes

59

Ch. IV. Sampling of Broken Ores and Rocks

61

Ch. V. Preparation of Samples for Chemical Analysis

64

Card ~~4~~/18

Ore-Mining Industry (Cont.)	SOV/5474
Ch. VI. Mineralogical, Chemical, and Physical Analysis of Samples	67
Ch. VII. Determination of the Physical Properties of Ores and Rocks	70
Ch. VIII. Organization of Sampling Operations	70
Bibliography	74
PART III. MINING SURVEY	75
Ch. I. Combined Survey	75
Ch. II. Underground Transit Traverses	81
Ch. III. Mine Vertical Survey	85
Ch. IV. Survey of Stopes	87
Card-5/18	

BYBOCHKIN, A.M.; BYKHOVSKIY, L.Z.; GURVICH, S.I.; CHETYRBOTSKAYA, I.I.

Tungsten deposits as a new source of tantalum. Razved. i okh.
nedr 29 no.7:10-12 JI '63. (MIRA 16:9)

1. Gosudarstvennyy geologicheskii komitet SSSR (for Bybochkin).
 2. Geologo-geokhimicheskii trest (for Bykhovskiy, Gurvich, Chetyrbotskaya).
- (Tungsten ores) (Tantalum)

BYBOCHKIN, A.M.; BYKHOVSKIY, L.Z.; GURVICH, S.I.; CHETYRKOTSKAYA, I.I.

Bismuth in tungsten deposits. Razved. i okh. nedr 30 no.2:
10-15 F '64. (MIRA 17:8)

1. Gosudarstvennyy geologicheskii komitet SSSR i Geologo-
geokhimicheskii trest.

BYBOCHKIN, Aleksey Mironovich; LUGOV, S.F., nauchn. red.;
SOLOMATINA, Z.D., ved. red.

[Tungsten deposits and the characteristics of their
distribution] Mestorozhdenia vol'frama i zakonomerno-
sti ikh razmeshchenia. Moskva, Nedra, 1965. 235 p.
(MIRA 19:1)

BYBREVICH, T. V.

USSR/Chemistry Physical chemistry

Card : 1/1 Pub. 147 - 19/25

Authors : Bazhenov, N. M., Vol'kenshteyn, M. V., and Bybrevich, T. V.

Title : Optical activity of gaseous methylvinylcarbinol

Periodical : Zhur. fiz. khim. 28/7, 1310 - 1312, July 1954

Abstract : A method of measuring the thermal process of optical activity in gaseous phase, in the ultraviolet zone of the spectrum, was developed. The optical activity of gaseous methylvinylcarbinol and the molecular constants of reversible isomers of this compound, were investigated and the results are given in tables. Two references: 1 USA and 1 USSR (1925 and 1954). Drawing.

Institution : Acad. of Sc. USSR, Institute of High Molecular Compounds, Leningrad

Submitted : November 30, 1953

BYBYSHEV, V. T., Engineer, Glavstankoprom.

"New Wires for Machine-Tool Electrical Wiring", Stanki I Instrument, 14, No. 6, 1943.

BYBYSHEV, V. T.

Candidate of Technical Sciences

"On the Introduction of a Single Voltage for Electric Drive Control Circuits in Metal Cutting Machine Tools," Stanki I Instrument, 17, No. 4-5, 1946

BYEYSHEV, V. T.; ANDREYEV, V. P., Docent

Candidates of Technical Sciences

"Basic Objectives in the Field of Electrifying Metal Cutting Machine Tools"
Stanki I Instrument, 17, No. 9-10-11, 1946

ca BYCH, E.S.

10

Acetylation of aromatic amines with acetyl chloride in the presence of sodium acetate. B. I. Arlashev and E. S. Bych (V. M. Molotov Univ., Rostov). *Zhur. Obshchei Khim.* (J. Gen. Chem.) 21, 1503-5 (1951).-- Acetylation of ArNH_2 with AcCl and NaOAc tried on 12 amines (PhNH_2 , *o*-, *m*-, and *p*-toluidines, 1- and 2- $\text{C}_6\text{H}_4\text{NH}_2$, *m*-xylylene, *o*- and *p*-anisidine, *m*- and *p*- $\text{C}_6\text{H}_4\text{NH}_2$, and benzidine) gave the best yields of pure products without further crystn. in comparison with other methods of acetylation. Typical expt.: 18.0 g. PhNH_2 and 8 g. freshly fused NaOAc were treated with shaking with 17 g. AcCl ; after the mixt. had cooled, diln. with 5 vols. H_2O and filtration gave directly 90% Ac-NHPh , m. 114°. G. M. Kosolapoff

1952

CA BYCH, E.S.

The acetylation of aromatic amines with acetyl chloride in the presence of sodium acetate. B. I. Ardashov and R. S. Bych. *J. Gen. Chem. U.S.S.R.* 21, 1043-4 (1951) (Engl translation).—See *C.A.* 46, 3013k. B. R.

COMMON ELEMENTS		1ST AND 2ND GROUPS		3RD AND 4TH GROUPS		5TH AND 6TH GROUPS		7TH AND 8TH GROUPS		9TH AND 10TH GROUPS	
BYCHATINA, T.											
CA											
Preparation of zinc peroxide. B. D. Volova and T. Bychatina. <i>J. Applied Chem.</i> (U.S.S.R.) 18, 173-4 (1945). - ZnO (10 kg.) was dissolved in 22 l. concd. HCl in 40 l. water, filtered, and pptd. by 20 l. 12.5% NH₄OH. The hydrated oxide is thoroughly washed with water (6-7 days) and treated with 17.6 l. 28% H₂O₂ for 40-8 hrs., after which the product is filtered and dried at 60-70°. The av. ZnO₂ content is 63-65%, with 77% yield. ZnSO₄ can be used for the prepn. of the hydrate intermediate, when 95% yields are obtained. G. M. Kosolapoff. Concentrated hydrogen peroxide. L. M. White. <i>Chem. Eng. News</i> 23, 1020(1945). - The Germans produced a stable, pure 82-85% soln. of H₂O₂ as a war material. G. C.											
18											
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION 1ST AND 2ND GROUPS 3RD AND 4TH GROUPS 5TH AND 6TH GROUPS 7TH AND 8TH GROUPS 9TH AND 10TH GROUPS											

BYCHAWSKA, S.

Protective activities in March. p.44

IAS POLSKI. (Ministerstwo Lesnictwa oraz Stowarzyszenie Naukowo-Techniczne
Inzynierow i Technikow Lesnictwa i Drzewnictwa) Warszawa, Poland
Vol.29, no.2, Feb.1955

Monthly list of East European Accessions (EEAI) LC, Vol.9, no.2, Feb. 1960
Uncl.

BYCHAWSKA, S.

Protective work in April. p.40

IAS POLSKI. (Ministerstwo Lasnictwa oraz Stowarzyszenie Naukowo-Techniczne
Inżynierów i Techników Lasnictwa i Drzewnictwa) Warszawa, Poland
Vol.29, no.3, Mar. 1955

Monthly list of East European Accessions (EEAI) LC, Vol.9, no.2, Feb. 1960

Uncl.

BYCHAWSKA,S.

Protective work in May. p.39

LAS POLSKI. (Ministerstwo Lesnictwa oraz Stowarzyszenie Naukowo-Techiczne
Inzynierow i Technikow Lesnictwa i Drzewnictwa) Warszawa, Poland
Vol.29, no.4 Apr. 1955

Monthly list of East European Accessions (EEAI) LC, Vol.9, no.2, Feb. 1960

Uncl.

BYCHAWSKA, S.

BYCHAWSKA, S. The tasks of forest protection. p. 41.

Vol. 29, no. 9, Sept. 1955

LAS POLSKI

AGRICULTURE

Poland

So: East European Accession, Vol. 6, No. 5, May 1957

BYCHAWSKA, S.

Bychawska, S. Protective works in July. p. 41

LAS POLSKI

Vol. 29, No. 6, June 1956

Warszawa, Poland

SO: Monthly List of East European Accessions, (EEAL), LC, VOL. 5, No. 10 Oct. 56

RYCHAWSKA, S.

Protective work in June. p. 38.

LAS POLSKI. (Ministerstwo Lesnictwa oraz Stowarzyszenie Naukowo-Techniczne Inzynierow i Technikow Lesnictwa i Drzewnictwa) Warszawa, Poland.
Vol. 29, no. 5, May 1959.

Monthly list of East European Accessions (IFAI) LC, Vol. 9, no. 2, Feb. 1960

Uncl.

BYCHAWSKI, T.

The ZII electric computing machine. p. 336

PREZEGLAD GEODEZYJNY. (Stowarzyszenie Naukowe-Techniczne Geodetow Polskich
Warszawa, Poland. Vol. 15, no. 8/9. Aug./Sept. 1959.

Monthly List of East European Accession (EEAI) LC, Vol. 9, no.2, Feb. 1960 .

Uncl.

BYCHAWSKI, Tadeusz

Geodezja Na Plaszczyznie; Podrecznik Dla Pierwszej Klasy Technikum Geodezy-
jnego (Geodesy of Surfaces; Manual for First Class Technical Geodesy)
Warszawa, Panstwowe Przedsiębiorstwo
Wydawnictw Kartograficznych, 1953.
196 p. Illus., Tables

BYCHAWSKI T.

Geodezja (Geodesy) by T. Bychawski. Reported in New Books (Nowe Książki.)
February 15, 1956. No. 4.

BYCHALEK, T.

Survey of the technical progress in the field of geodesy and cartography.

P. 47 (PRZEGLED GEODEZJI) Poland, Vol. 13, No. 1, Jan. 1957

SO: Monthly Index of European Accessions(ALLI) Vol. 6, No. 11, November 1957

BYCHANSKI, T.

SURNAME (in caps); Given Names

Country: Poland.

Academic Degrees: Mgr.-Ing.

Affiliation: Institute of Geodesy and Cartography (Institut fuer
Geodaesie and Kartographie), Warsaw

Source: Berlin, Vermessungstechnik, Vol. 9, No. 7, Jul 61,
pp 197-199

Data: "The Status of Mechanization of Geodetic Computations in
Poland"

BYCHAWSKI, Tadeusz, mgr., inż.

Microfilming of geodetic documents. Przegl geod 33 no.12:477-478 '61.

S/035/62/000/010/080/128
A001/A101

AUTHOR: Bychawski, Tadeusz

TITLE: Hungarian geodetic instruments

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 10, 1962, 8,
abstract 10G30 ("Przegł. geod.", 1962, v. 34, no. 3, 108 - 111,
Polish)

TEXT: In November 1961, in Warsaw, Łódź and Poznań was organized an exhibition of geodetic instruments manufactured by the Hungarian optical enterprise MOM. The following system of instrument designation is adopted in Hungary: at first an abbreviated name is given (Te - theodolite, Ta - tachometer, Ni - level instrument), then precision class is denoted by a capital letter (A, B, C, D, E,), and at last, the next in turn number of design is given by Arabic numerals. The following instruments were exhibited: Te-B1 (0"25), Te-C1 (1"), Te-D1 (0'1), Ta-D1 (0'1, diagram type), Te-E4 (0'5) (Reading precision is indicated in parentheses, Reviewer), Ni-A1 (with a level, rms error per km $m = \pm 0.2 - 0.3$ mm), Ni-B3 (with compensator; $m = \pm 1.5$ mm), planetable with

Card 1/2

Hungarian geodetic instruments

S/035/62/000/010/080/128
A001/A101

alidade MOM-MA. A brief description of theodolites and level instruments is given.

N. Modrinskiy

[Abstracter's note: Complete translation]

Card 2/2

BYCHAWSKI, Tadeusz, mgr inż.

Exhibition of geodetic instruments at the 10th Congress of the International Federation of Geodesists in Vienna. Przegl geod 35 no.3:128-131 Mr '63.

1. Delegat Stowarzyszenia Geodetow Polskich do Komisji I FIG, Warszawa.

BYCHAWSKI, Tadeusz, mgr inz.

Remarks on the 32d International Poznan Fair. Przegl geod 35
no.9:391-392 S '63.

1. Instytut Geodezji i Kartografii, Warszawa.

BYCHAWSKI, Tadeusz, mgr inz.; KLOPOCINSKI, Wacław, mgr inz.; TYMOWSKI,
St, J., mgr inz.; KAPROWSKI, Wiesław

Survey of books and periodicals. Przegl geod 35 no.10:
439-441 0 '63.

BYCHAWSKI, Z.

" Polish Designs of Prepressed Concrete Ceilings." p. 241 (Inzyniera I Budownictwo,
Vol. 10, No. 8, Aug. 1953, Warszawa)

SO: Monthly List of EastEuropean Accessions, Vol. 3, No. 6, Library of Congress, June,
1954, Uncl.

BYCHAWSKI, Z.

Retarded deformations in concrete. p. 185.

(ARCHIWUM INZYNIERII LADOWEJ. Vol. 2, no. 1/2, 1956, Warsaw, Poland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol, 6, No. 9, Sept. 1957 Uncl.

BYCHAWSKI, ZBIGNIEW.

Kablobeton. (Wyd. 1.) Warszawa, Wydawn. Arkady, 1957. 234 p. (Prestressed cable concrete. 1st ed. illus., bibl., diags., footnotes, graphs, index, tables)

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

B. J. Chawski, 22

1/12/21

447-7

By the author, Zigmund, Resolving the problem of the generalized creep function
equation in the case of the generalized creep function
as a function of the age of the concrete and the age of the concrete
in the case of the generalized creep function
creep in prestressed reinforced concrete W. Now

BYCHAWSKI, Zbigniew

Research on creep buckling of circular plates within the scope of small and large deflections. Rozpr inż PAN 9 no.4:639-708 '61.

1. Zakład Mechaniki Osrodkow Ciaglych, Instytut Podstawowych Problemow Techniki, Polska Akademia Nauk, Warszawa.

L 00352-66 EWT(d)/EWT(m)/EWP(w)/T/EWP(t)/EWP(b) JD/EM

ACCESSION NR: AP5021704

PO/0033/65/017/003/0427/0439

AUTHOR: Bychawski, Z.

TITLE: Large deflections of elastic-creeping circular membrane

SOURCE: Archiwum mechaniki stosowanej, v. 17, no. 3, 1965, 427-439

TOPIC TAGS: membrane buckling, stress load, creep characteristic, elastic material, ordinary differential equation, approximation method, continuous medium

ABSTRACT: A new method is used to solve the symmetrical circular elastic-creep problem when applied to a circular membrane with large deflections. The strain rates for the membrane are described by

$$\dot{\epsilon}_{ij} = \Phi_E \dot{\epsilon}_{ij} + \Phi_C \dot{\epsilon}_{ij}$$

where Φ_0 is the fluidity given by

$$\Phi_C = \frac{3}{2} B \sigma_1^{-1}$$

The equation of equilibrium of the membrane is expressed nondimensionally by

$$\frac{dw}{dq} = -\frac{q}{r}$$

The governing equation of elastic-creep motion is obtained in the form

Card 1/3

L 00352-66

ACCESSION NR: AP5021704

$$8(z'' + a\Omega^{\frac{n-1}{2}}z')\varrho + a(n-1)\Omega'\Omega^{\frac{n-3}{2}}\left(4z' - 3\frac{z}{\varrho}\right)\varrho = 2\gamma z\left(\frac{\varrho}{z}\right)^{\alpha},$$

where

$$a = \frac{B}{A}C^{n-1}, \quad \gamma = \frac{P}{AC^2}, \quad \Omega' = \frac{d\Omega}{d\varrho},$$

and the solution is given in the form of a double power series for a hinged membrane or

$$z = \sum_{l=0}^{\infty} \sum_{k=0}^{\infty} z_{lk} \alpha^k \varrho^{l+1},$$

$$z_{lk} = z_{lk}(t), \quad a = \frac{B}{A}C^{n-1};$$

where α is a small parameter. The boundary conditions for arbitrary t are given by

$$\dot{u}(1) = 0, \quad \text{or} \quad \left[\left(4z' - 3\frac{z}{\varrho} \right) + a\Omega^{\frac{1}{2}(n-1)} \left(4z' - 3\frac{z}{\varrho} \right) \right]_{\varrho=1} = 0;$$

$$\bar{w}(1) = 0;$$

$$(\sigma_r - \sigma_\theta)_{\varrho=0} = 0, \quad \text{or} \quad \left(z' - \frac{z}{\varrho} \right)_{\varrho=0} = 0$$

and the initial conditions by

$$\sigma_r|_{t=0} = \sigma_{r0}, \quad \text{or} \quad z|_{t=0} = \sum_{v=0}^{\infty} z_{0v} \varrho^{v+1} = z_0;$$

Card 2/3

L 00352-66

ACCESSION NR: AP5021704

$\bar{w}|_{t=0} = \bar{w}_0$

It is shown that the method is applicable to circular plates and to certain shells of rotation. The effectiveness of the method consists in reducing the time-dependent solution to a recurrence set of linear differential equations. Since the method involves a "small parameter," the solution is limited to the cases where the creep deformation does not exceed the elastic deformations. Orig. art. has: 70 equations.

ASSOCIATION: Institute of Basic Technical Problems PAS, Laboratory of Mechanics of Continuous Media

SUBMITTED: 16Jul64

ENCL: 00

SUB CODE: AS
MA

NO REF SOV: 000

OTHER: 007

Card 3/3

L 30004-66 EWP(w)/T/EWP(t)/ETI JD

ACC NR: AP5024315

SOURCE CODE: PO/0033/65/017/004/0593/0600

AUTHOR: Bychawski, Z. (Krakow)

ORG: none

TITLE: Elastic analog in the general case of a geometrically nonlinear membrane subjected to creep

SOURCE: Archiwum mechaniki stosowanej, v. 17, no. 4, 1965, 593-600

TOPIC TAGS: creep mechanism, tensile stress, thermal stress

ABSTRACT: An elastic analog exists in the geometrically nonlinear creep problem of a circular membrane because in the two fundamental equations of the problem the variables are separable. The one independent of time is formally analogous to the elastic instantaneous problem. The general law for a membrane undergoing creep is

$$\dot{\epsilon}_{ij} = \Phi_c s_{ij},$$

where ϵ_{ij} are the components of strain rate tensors, s_{ij} are those of the stress deviations, and Φ_c is the liquidity as a function of the state of stress. According to the law of steady state creep, the liquidity is a power function of the stress intensity σ_i ,

$$\Phi_c = \frac{3}{2} B \sigma_i^{-1},$$

Card 1/2

L 30004-66

ACC NR: AP5024315

where B and n are constants. The equilibrium equation and the compatibility equation together with boundary and initial conditions, are used to formulate the creep problem for a geometrically nonlinear membrane of any simply connected normal contour. The existence of an elastic analog is shown by the separation of linear and time variables. Orig. art. has: 2 figures, 46 formulas.

SUB CODE: 20/

SUBM DATE: 30Oct64/

OTH REF: 006

Card 2/2 *h*

BYCHEK, Nikolay Romanovich; PISKUNOV, V., red.; MUKHIN, Yu., tekhn.red.

[Planning industrial production] Planirovanie promyshlennogo
proizvodstva. Moskva, Gos.izd-vo polit.lit-ry, 1959. 101 p.
(MIRA 12:10)

(Russia--Economic policy)

BREYEV, M.V., doktor ekon. nauk; SILIN, V.A.; BYCHEK, N.R., kand.
ekon. nauk; GREBTSOV, G.I., kand. ekon. nauk; ITKINA, A.S.,
kand. ekon. nauk; KOKOREV, M.V., kand. ekon. nauk; KOMIN,
A.N., kand. ekon. nauk; LIPSITS, V.B., kand. ekon. nauk;
OZORNOV, A.K., kand. ekon. nauk; ORLOV, N.M., st. prepod.;
SEREDNITSKAYA, Ye.K., kand. ekon. nauk; SMEKHOV, B.M.,
doktor ekon. nauk; FEL'D, S.D., kand. ekon. nauk; LISOV,
V.Ye., red.; TARASOVA, T.K., mlad. red.; GERASIMOVA, Ye.S.,
tekhn. red.

[Planning the national economy of the U.S.S.R.] Planirovanie
narodnogo khoziaistva SSSR. Moskva, Ekonomizdat, 1963. 621 p.
(MIRA 16:8)

1. Moscow. Institut narodnogo khozyaystva.
(Russia--Economic policy)

GAVSHIN, P.; BYCHEK, P.

Putting potentialities into use. Metallurg 8 no.5:33 My '63.
(MIRA 16:7)

1. Azerbaydzhanskiy truboprokatnyy zavod.
(Pipe mills)

BYCHENKO, B.D.; MATVEYEV, K.I.; BULATOVA, T.I.; DAVYDOVA, N.V.

Serological groups of *Clostridium perfringens* studied by precipitation reaction. Zhur.mikrobiol.epid. i imun. 30 no.1:81-85 Ja '58.
(MIRA 12:3)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

(CLOSTRIDIUM PERFRINGENS,
serol. type, precipitation reaction (Rus))

BYCHENKO, B.D.; BULATOVA, T.I.

Identification of *Clostridium perfringens* type F. Zhur.mikrobiol.
epid. i imun. 30 no.1:85-90 Ja '58. (MIRA 12:3)

1. Iz Instituta epidemiologii imeni Gamalei AMN SSSR.
(*CLOSTRIDIUM PERFRINGENS*,
F, identification (Rus))

LEN'KOV, V.I.; BYCHENKO, B.D., vrach

Detection of epsilon toxin (*Clostridium perfringens* type D)
in the intestines of sheep which died from infectious enteroto-
xemia. Veterinariia 35 no.11:22-25 N '58. (MIRA 11:11)

1. Direktor Yuzhno-Kazakhstanskoy nauchno-issledovatel'skoy
veterinarnoy stantsii (for Len'kov). 2. Institut mikrobiologii
i epidemiologii imeni N.F. Gamaleya AMN SSSR (for Bychenko).
(Intestines--Diseases) (*Clostridium perfringens*)

BYCHENKO, B.D.; MATVEYEV, K.I.

Some properties of *Cl. perfringens* types A, B, C, D, F in relation to the type specificity of their strains. Zhur.mikrobiol., epid. i immun. 30 no.12:62-67 D '59. (MIRA 13:5)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

(*CLOSTRIDIUM PERFRINGENS*)

BYCHENKO, B.D.

Medium for the detection of the toxic strains of types A,B,C,D, and
F of Clostridium perfringens. Lab.delo 6 no.1:40-43 Ja-Fe '60.
(MIRA 13:4)

1. Iz instituta epidemiologii i mikrobiologii imeni N.F. Gamalei
(direktor - prof. S.N. Muromtsev), Moskva.
(BACTERIOLOGY--CULTURES AND CULTURE MEDIA)
(CLOSTRIDIUM PERFRINGENS)

S/016/60/000/05/19/079

AUTHOR:

Bychenko, B.D.

TITLE:

A Study of Clostridium Perfringens Strains (Type D) Isolated
During Infectious Enterotoxemia.

PERIODICAL:

Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1960,
No. 5, pp. 64 - 68

TEXT:

A study was made of various strains of Clostridium perfringens type D to obtain a diagnostic antitoxic serum for this type. The strains available had been isolated from the soil and from the corpses of sheep. The epsilon-prototoxin was activated either with pancreatin solution (or trypsin) or by the toxin neutralization reaction, with specific antitoxic sera to Clostridium perfringens types A, B, C and D. It was found that Clostridium perfringens type D's ability to produce epsilon-prototoxin does not depend on the production of other toxins and may be lost by long storage on synthetic media. This is proved by the fact that classical type D strains, isolated by Bennets and obtained from France, had lost their power to synthesize epsilon-prototoxin. Toxoids for testing animals against infectious enterotoxemia, recorded in southern

ε
X
Ent

ASSO

SUBMITT

Gamalet

8/616/60/000/05/19/079

AUTHOR: Bychenko, B.D.

TITLE: A Study of *Clostridium Perfringens* Strains (Type D) Isolated During Infectious Enterotoxemia.

PERIODICAL: Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1960, No. 5, pp. 64 - 68

TEXT: A study was made of various strains of *Clostridium perfringens* type D to obtain a diagnostic antitoxic serum for this type. The strains available had been isolated from the soil and from the corpses of sheep. The epsilon-prototoxin was activated either with pancreatin solution (or trypsin) or by the toxin neutralization reaction, with specific antitoxic sera to *Clostridium perfringens* types A, B, C and D. It was found that *Clostridium perfringens* type D's ability to produce epsilon-prototoxin does not depend on the production of other toxins and may be lost by long storage on synthetic media. This is proved by the fact that classical type D strains, isolated by Bennets and obtained from France, had lost their power to synthesize epsilon-prototoxin. Toxoids for immunizing animals against infectious enterotoxemia, recorded in southern

Card 1/2

S/016/60/000/05/19/079

A Study of Clostridium Perfringens Strains (Type D) Isolated During Infectious Enterotoxemia.

Kazakhstan, should be prepared from activated epsilon-prototoxin of Clostridium perfringens type D. For preparing therapeutic and diagnostic antitoxic serum against Clostridium perfringens type D, or for vaccines against infectious enterotoxemia, the following Soviet strains are recommended: 63 zk, 68 zk, 1k-D, 30 and 45. There are 3 tables and 14 references, 5 of which are Soviet, 8 English and 1 German. ✓

ASSOCIATION: Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR
(Institute of Epidemiology and Microbiology imeni Gamaleya of
the AMN, USSR)

SUBMITTED: August 24, 1959

Card 2/2

BYCHENKO, B. D.

Cand Med Sci - (diss) "Study of the properties of *Cl. perfringens* of the A, B, C, D, E, and F types in connection with identifications of these micro-organisms." Moscow, 1961. 18 pp; (Academy of Medical Sciences USSR); 250 copies; price not given; (KL, 10-61 sup, 224)

BYCHENKO, B.D.

Methods of analysis of raw, semiprocessed and finished products
for *Clostridium perfringens*. Kons.i ov.prom. 17 no.9:29-31
S '62. (MIRA 15:8)

1. Institut epidemiologii i mikrobiologii imeni N.F.Gamaleya.
(Food adulteration and inspection) (Food poisoning)

L 42429-65 EWT(1)/EWA(j)/EWA(b)-2 JK

ACCESSION NR: AP5007996

S/0016/65/000/002/0131/0138

AUTHOR: Bychenko, B. D.

TITLE: Complex nature of Cl. perfringens somatic antigens A, B, C, D, E, and F

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunitologii, no. 2, 1965, 131-136

TOPIC TAGS: Cl. perfringens, antigen, extraction method, agglutination test, precipitation, serologic test

ABSTRACT: The contradictory nature of literature data on the specificity of Cl. perfringens somatic antigens A, B, C, D, E, and F prompted the present comparative study of all six antigens. The results obtained from initial and subsequent studies are presented.

Antigens were prepared at 100°C, 100°C, 100°C, 100°C, 100°C, and 100°C, and by Miller's method. They were tested by agglutination, precipitation, and serologic test.

Card 1/2

I 42429-65

ACCESSION NR: AP5007996

agar method. Findings show that there are considerable differences between the various *S. paratyphi* somatic antigens. The results of the extraction method, however, are in good agreement with the results of the agar method. It appears that the specificity of the serological reaction results coinciding regardless of the extraction method. It appears that the specificity of the reaction is determined by the entire complex of cell antigens. has: 1 figure.

ASSOCIATION: Kafedra bakteriologii Lidskogo universiteta Angliya (Department of Bacteriology of Leeds University, England); Institut za mikrobiologiju, N. E. Gamaletskiy AMN SSSR (Institute of Bacteriology and Microbiology AMN USSR);

SUBMITTED: 10Oct63

ENCL: 00

SUB CODE: 00

NR REF SOV: 002

OTHER: 007

Card 2/2

BYCHENKO, N., mladshiy serzhant

Our remarkable commander. Starsh.-serzh. no.3:20 Mr '62.
(Russia---Army---Noncommissioned officers) (MIRA 15:4)

NAFTULIN, M.E.; SHVETS, Yu.A.; UDOVENKO, K.A.; DZHANUTSTSO, K.A.;
IVASHCHENKO, P.M.; BELEN'KIY, V.I.; BYCHENKO, N.A.

Coloring filmlike layers of asbestos-cement sheet products. Stroi.
mat. 6 no.5:24-25 My '60. (MIRA 13:7)
(Asbestos cement)
(Coloring matter)

BYCHENKO, N.I.

USSR/General and Special Zoology. Insects. Injurious In- P
sects and Ticks. Pests of Fruit and Berry Crops

Abs Jour : Ref Zhur - Biol., No 11, 1958, No 49661

Author : Bychenko N.I.

Inst : -

Title : An Experiment in the Control of the Pear Bug.

Orig Pub : Sad i ogorod, 1957, No 5, 56-57

Abstract : The following measures for the control of the pear
bug are recommended on the basis of a 2-year ex-
periment: re-spading the circles around the
trunks after the fall of the leaves; dusting the
trunks and the circles around the trunks in early
spring with 25% hexachlorocyclohexane (HCH) dust,
60-70 g per tree; during the emergence of first
generation larvae, dusting with a 25% HCH dust,
15-20 kg/ha. Dusting the infected sections with
HCH destroyed 95-100% of the larvae. Dusting

Card : 1/2

USSR/General and Special Zoology. Insects. Injurious In- P
sects and Ticks. Pests of Fruit and Berry Crops

Abs Jour : Ref Zhur - Biol., No 11, 1958, No 49661

the infected sections with HCCH destroyed 95-100%
of the larvae. Dusting with HCCH against the
larvae was not less effective than dusting with a
0.3% anabasinsulfate solution, but cost 5-6
times cheaper. -- A.P. Adrianov

Card : 2/2

DOKSHIN, V.S.; BYCHENKO, N.N.

Concerning the article by I.N. Plaksin and S.S. Shakhmatov
"Use of flotation jigging in ore dressing." TSvet. met. 38
no.11:44-45 N '65. (MIRA 18:11)

BYCHENKOV, A.I., fel'dsher (Myasnikovskiy fel'dshersko-akusherskiy
~~punkt~~ Ivanovskoy oblasti).

Work plan of the Shigali Feldsher and Midwife Station. Fel'd.i
akush. no.1:45-46 Ja '54. (MLRA 7:1)
(Medicine, Rural)

BYCHENKOV, N. I., Engr.

"On Flanged Connections With Soft Packings in Chemical Apparatus."
Gand Tech Sci, Moscow Order of Lenin Chemico-Technological Inst
Ivan D. I. Mendeloyev, 6 Oct 54. (VM, 22 Sep 54)

SO: Sum 432, 29 Mar 55

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 1, p 157 (USSR) SOV/124-58-1-1278

AUTHOR: Bychenkov, M. I.

TITLE: On the Coefficient of Friction in the Threads of Bolts (O koef-fetsiyente treniya v rez'be boltov)

PERIODICAL: Sb. nauchn. rabot. Vyssh. shkola promysl. kooperatsii, 1957, Nr 2, pp 35-53

ABSTRACT: The author arrives at the following conclusions: 1. In calculating the axial force required to ensure a suitable pressure on the bolted element, it is advisable to assume a general (nominal) friction coefficient of 0.18 to obtain dependable results. 2. In design calculations relative to flange bolts the friction coefficient should be assumed to be 0.14.

Reviewer's name not given

Card 1/1

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 9, p 164 (USSR) SOV/124-57-9-11060

AUTHOR: Bychenkov, M. I.

TITLE: On the Problem of the Design of Flange Couplings With Soft Packing in Systems Working Under Pressure (K voprosu o raschete flantsevykh soyedineniy s myagkimi prokladkami v apparature rabotayushchey pod davleniyem)

PERIODICAL: Sb. nauchn. rabot. Vyssh. skola promysl. kooperatsii, 1957, Nr 2, pp 54-60

ABSTRACT: Bibliographic entry

Card 1/1

1ST AND 2ND ORDERS																										PROCESSES AND PROPERTIES INDEX																										1ST AND 2ND ORDERS																									
B BYCHENKOV, S.A.																																																				21																									
Optimum Degree of Heat Regeneration of Exhaust Gases of Gas-Turbine Installations in Continuous Operation. (In Russian.) L. A. Kuznetsov and S. A. Bychenkov. <i>Kotloturbostroenie</i> (Boiler and Turbine Manufacture), Jan.-Feb. 1949, p. 1-3. Presents a theoretical analysis of the above. 70-75% regeneration is recommended for stationary installations. The relationship of basic characteristics—efficiency, specific gas consumption, and useful output—to coefficient of regeneration is interpreted graphically.																																																																													
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																																																																													

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307820017-3

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307820017-3"

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307820017-3

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307820017-3"

S/112/59/000/013/021/067
A002/A001

Translation from: Referativnyy zhurnal, Elektrotehnika, 1959, No. 13, p. 32,
26377

AUTHORS: Bychenkov, S. A., Kuznetsov, L. A., Dorfman, L. A., Shkutov, K. G.

TITLE: The Experimental Gas Turbine Plant of NZL

PERIODICAL: Tr. Nevsk. mashinostroita. z-da, 1957 (1958), No. 1, pp. 211-226

TEXT: An experimental gas turbine power plant was built at NZL in 1945-1948. At this plant a single-shaft $\Gamma T-550$ (GT-550) unit was installed working on an open cycle with regeneration (550°C gas temperature, 3.5 atm pressure). In 1955, the unit was converted to a $\Gamma T-700$ (GT-700) two-shaft installation (700 $^{\circ}\text{C}$ gas temperature). The plant was in operation for 2,500 hours with 130 starts. The GT-550 with a capacity of 840-1,000 kw has 5 reaction stages $\alpha_1 = \text{const}$, $\beta_2 = \text{const}$, $u/c_0 = 0.56-0.63$. The axial compressor has 16 stages with a 50% reaction. The adjustment of the compressor was performed during the tests. The stage characteristic on which the calculation of the compressor of the industrial $\Gamma T-600-1.5$ (GT-600-1.5) was based, was plotted on the basis of these

Card 1/2

The Experimental Gas Turbine Plant of NZL

S/112/59/000/013/021/067
A002/A001

investigations. The nonuniform distribution of temperatures over the turbine casing and great temperature stresses in the rotor bore necessitate a preheating of the installation for 60 - 80 minutes. Characteristics of the turbine unit at different operating conditions are given. Changes of the outside air temperature from $+20^{\circ}\text{C}$ to -20°C do not affect the specific fuel consumption, but the power rises by 1.5 times. The two-shaft GT-700 unit was designed on the basis of the GT-550 by adding a superimposed, single stage turbine with a 700°C inlet temperature and a high-pressure compressor.

V. S. P.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

8(6), 14(6)

007/112-55-4-1591

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 4, p 29 (USSR)

AUTHOR: Bychenkov, S. A., Kuznetsov, L. A., and Semichev, V. N.

TITLE: Stationary NZL Gas Turbines

PERIODICAL: V sb.: Ispol'sovaniye gaza v teplosilovyykh ustanovkakh. M.-L., Gosenergoizdat, 1957, pp 114-121

ABSTRACT: Neva Machine-Building Plant imeni Lenin builds 1.5-6-Mw gas-turbine units. All units built by this plant have the simplest scheme with a developed regeneration and a turbine-entrance temperature of 600°C. The first GT-600-1.5 industrial unit (600°C, 1.5 Mw) operates on various grades of heavy liquid fuel. The FG-50000 gas-turbine-compressor (reference capacity 2.5 Mw) is intended for operation on a low-calorie gas from underground gasification. Its axial extraction-type compressor ensures delivering 50,000 m³/hr of air into the drill-hole at 2.2-atm. The GT-600-6 unit operates on blast-furnace gas with $Q_P^H = 630$ kcal/kg and drives a 6-Mw

Card 1/2

Stationary NZL Gas Turbines

SOV/112-59-4-6591

generator. Use of a double housing and runner air cooling permitted considerable savings on austenite steel without any appreciable reduction of efficiency or reliability of the machine. A GT-700-4 unit (700°C, 4 Mw) has been developed for gas-pumping stations; its scheme is similar to that of GT-600-1.5, but it has, in addition, a superimposed turbine. New blading in its gas-flow path ensures a high efficiency.

V.S.P.

Card 2/2

BYCHENKOV, S.A., inzh.; KUZNETSOV, L.A., kand.tekhn.nauk

Considerations in the selection of stationary gas-turbine
units. Energomashinostroenie 4 no.3:22-23 Mr '58.
(Gas turbines)

(MIRA 11:5)

BYCHENKOV, Yuriy Dmitriyevich, mladshiy nauchnyy sotrudnik; SEREGIN, I.N.,
Prinimali uchastiye: KOLOMENSKIY, A.P., inzh.; STOYAROV, M.P.,
inzh.; VILIN, N.G., inzh.; VALYUS, V.M., inzh.; BOCHMAN, G.P.,
tekhnik. YERIN, B.G., red.; SERGEYEV, A.F., red.izd-va; DONSKAYA,
G.D., tekhn.red.

[Investigating the performance of stretching equipment and cone-
type anchorages] Issledovanie raboty natiazhnogo oborudovaniia
i komusnykh ankerov. Moskva, Nauchno-tekhn.izd-vo M-va avtomo-
bil'nogo transp. i shosseinykh dorog RSFSR, 1959. 27 p.

(MIRA 13:4)

1. Nachal'nik laboratorii zhelezobetonnykh konstruksiy Gosudarstven-
nogo Vsesoyuznogo dorozhnogo nauchno-issledovatel'skogo instituta
(SOYUZDORNII) (for Seregin).
(Prestressed concrete)

SEREGIN, Ivan Nazarovich; PSHERNICHNIKOV, Sergey Nikolayevich; ANUFRIYEV, Viktor Ivanovich; BYCHENKOV, Yuriy Dmitriyevich; TUMAS, Ye.V., red.; DONSKAYA, G.D., tekhn.red.

[Technology of building prestressed reinforced concrete bridges]
Tekhnologiya postroiki predvaritel'no napriazhennykh zhelezobetonnykh mostov; posobie masteru. Moskva, Nauchno-tekhn.izd-vo M-va avtomobil'nogo transp. i shosseinykh dorog RSFSR, 1960. 171 p.
(Bridges, Concrete) (MIRA 14:4)

BYCHENKOV, Yu. D., CAND TECH SCI, *Study* "INVESTIGATION OF THE
performance tapered OPERATION OF ~~some~~ ANCHORS OF *the* PRESTRESSED CLUSTER ~~steel~~
reinforcement motor vehicle FRAMEWORK OF AUTOMOBILE HIGHWAY BRIDGES." MOSCOW, 1961.
(MIN OF HIGHER AND SEC SPEC ED RSFSR. MOSCOW ORDER OF LA-
BOR RED BANNER ENGINEERING ~~AND~~ CONSTRUCTION INST IMENI V. V.
KUYBYSHEV). (KL-DV, 11-61, 218).

-126-

IVANOV-DYATLOV, I.B., prof.; ZVEREV, S.A., inzh.; BYCHENKOV, Yu.D., inzh.;
DELLOS, K.P., inzh.

Prestressed reinforced keramzit concrete bridge. Avt. dor. 24 no.3:
12-15 Mr '61. (MIRA 14:5)
(Bridge construction) (Lightweight concrete)

BYCHENKOVA, E.A.

Investigation of callus formation in some tree and shrub species
by tissue culture in vitro. Dokl. AN SSSR 151 no.3:732-736 J1
'63. (MIRA 16:9)

1. Leningradskaya lesotekhnicheskaya akademiya im. S.M.Kirova.
Predstavleno akademikom A.L.Kursanovym.
(Gallus (Botany)) (Tissue culture)

TEN, Igor' Aleksandrovich, kand.tekhn.nauk. Prinimali uchastiye:
BYCHENKOVA, L.T., mladshiy nauchnyy sotrudnik; KOZLOV, Ye.K.,
mladshiy nauchnyy sotrudnik. YAKOVLEVA, A.I., red.;
NIKOLAYEVA, L.N., tekhn.red.

[Designing high pile foundations of bridges; calculations using
specific centers] Raschet vysokikh svainykh rostverkov opor
mostov; razvitie metoda rascheta pri pomoshchi kharakternykh
tsentrov. Moskva, Nauchno-tekhn.izd-vo M-va avtomobil'nogo
transp. i shosseinykh dorog RSFSR, 1960. 54 p.

(Bridges--Design)

(MIRA 14:1)

POL'KINA, R.I.; BYCHENKOVA, M.N.; ZALESSKAYA, L.I.

Radiosensitization of inoculated tumors with some pyrimidine derivatives. Vop. onk. 9 no.9:34-38 '63. (MIRA 17:9)

1. Iz laboratorii eksperimental'noy onkologii (zav.- prof. N.V. Lazarev) i rentgenovskogo otdeleniya (zav.- prof. L.M. Gol'dshteyn [deceased]) Instituta onkologii AMN SSSR (dir.- deystvitel'nyy chlen AMN SSSR prof. A.I. Serebrov). Adres avtorov: Leningrad, P-129, 2-ya Berezhovaya alleya 3, Institut onkologii AMN SSSR.

GOL'DSHTEYN, L.M.; BYCHENKOVA, M.N.; ZALESSKAYA, L.I.

Effectiveness of radiotherapy by various methods of cancer of the
upper segments of the esophagus. Trudy Inst.onk.AMN SSSR no.4:27-
38 '62. (MIRA 15:9)

(ESOPHAGUS—CANCER) (RADIOTHERAPY)

POL'KINA, R.I.; BYCHENKOVA, M.N.; ZALESSKAYA, L.I.

Attempts at the radiosensitization of transplanted tumors using
some pyrimidine derivatives. Trudy Inst.onk.AMN SSSR no.4:102-
107 '62. (MIRA 15:9)

1. Iz laboratorii eksperimental'noy onkologii (zav. - prof. N.V.
Lazarev) i rentgenovskogo otdeleniya (zav. - prof. L.M.Gol'dshteyn).
(PYRIMIDINES) (ONCOLOGY) (RADIOTHERAPY)

BYCHENKOVA, V. N.

Bychenkova, V. N.

"The effect of larval nutrition on the behavior of adult insects."
Leningrad State Pedagogical Inst imeni A. I. Gertsen. Chair of
Zoology. Leningrad, 1956 (Dissertation for the degree of Candi-
date in Biological Sciences)

Knizhnaya letopis'

No. 25, 1956. Moscow

GREBEL'SKIY, S.G.; BYCHENKOVA, V.N.

A short historical outline of the study of bloodsucking
dipterans in Eastern Siberia. Trudy Vost.-Sib. fil. AN SSSR
no.30:91-98'61.
(SIBERIA, EASTERN—DIPTERA—RESEACH) (MIRA 16:6)

BYCHENKOVA, Ye. A.

KRYSHOVA, N.A.; ZHILINSKAYA, M.A.; KOVALENKOV, K.M.; BYCHENKOVA, Ye.A.
(Leningrad)

Use of Russian curare-like agents in clinical neurological
diseases. Zhur. nevr. i psikh. 54 no.7:579-582 Jl '54. (MLRA 7:7)
(MUSCLE RELAXANTS, therapeutic use,
*nervous system dis.)
(NERVOUS SYSTEM, diseases,
*ther., muscle relaxants)

BYCHENKOVA, Y.E.A.

Result of using tropacine in treating neurological diseases. Zhur.
nevr. i psikh. 55 no.1:50 Ja '55. (MLRA 8:2)

1. Psikhonevrologicheskoye ob'yedineniye Sverdlovskogo rayona
Leningrada (nauchnyy rukovoditel' prof. N.A.Kryshova)
(NERVOUS SYSTEM, diseases,
ther., musc. relaxant tropacine)
(MUSCLE RELAXANTS, therapeutic use,
tropacine in nervous system dis.)

BYCHENOK, N.F., inzh.

Efficiency of the use of plastic materials in the machinery
industry. Mashinostroenie no.1:10-12 Ja-F '64. (MIRA 17:7)

L 08588-67

ACC NR: AR6029275

SOURCE CODE: UR/0044/66/000/006/V048/V048

AUTHOR: Romankevich, A. M.; Bychenok, N. N.

29

TITLE: Certain problems connected with the carrying out of arithmetic operations in machines working with ten positional elements B

SOURCE: Ref. zh. Matematika, Abs. 6V326

REF SOURCE: Sb. Vopr. teorii elektron. tsifrovyykh matem. mashin. Vyp. 8, Kiyev, 1965, 65-75

TOPIC TAGS: arithmetic unit, computer coding, computer design, computer theory

ABSTRACT: The simplicity of realization of binary elements and the shortcoming peculiar to the binary systems of calculus quite often induced the designers to leave the decimal calculus and utilize binary-decimal codes although this leads to an increase in size of equipment by some 15—20%. The use of multipositional elements, which in realization complexity are comparable with the binary ones, permits not only to avoid these expenditures but also to reduce the equipment by, for instance, reducing the length of registers. During the utilization of ten-positional elements, a certain complexity of schematic realization of the formation of auxiliary and inverse codes is encountered. For the representation of numbers it is expedient to utilize direct codes; the code of the multiplication and fractional sign is fixed by

Card 1/2

UDC: 681.142.001

U 00588-67

ACC NR: AR6029275

the sum of the digits of the numbers signs. The sign of the arithmetic operation during the combining of two numbers is determined by the sum over the modulus 10 of the sign codes of the components and the sign code of the algebraic operation. Here it is comparatively simple to materialize the comparison of two numbers if, for instance, the phase pulse representation is utilized. The methods for the carrying out of the decimal composition and subtraction differ very little from the binary ones as far as new ideas and principles are concerned; however, as the result of a more economical representation of numbers their subsequent processing is accelerated. The paper describes in detail certain most specific methods of decimal multiplication. The multiplication by means of consecutive addition (a simplicity of realization at a not too high speed), the multiplication by means of subtraction, and the multiplication using the multiplication matrix. Estimates are given concerning the speed of multiplication for each of the three methods: during parallel summation $10nr$, $6nr$, and $5nr$; for consecutive summation $4.5n^2r$, $2.5n^2r$, and $n(n+1)r$ respectively, where n is the number of digits of the comultiplier and r the duration of the cycle of addition and shift. Corresponding estimates for analogous binary multiplication ($9.9nr$ and $10.9n^2r$) permit the comparison of these two methods. [Translation of abstract] 5 illustrations and bibliography of 4 titles. G. Yakobson

SUB CODE: 09,12

Cord 2/2 *gl*

OSTER-VOLKOV, Nikolay Nikolayevich; RIZAYEV, N.U., kand. tekhn.
nauk, retsenzent; MAKSUDOV, Yu.M., kand. tekhn. nauk,
retsenzent; MOROZOV, A.M., kand.tekhn. nauk, retsenzent;
BYCHEROVA, A., red.

[New synthetic materials based on furan compounds] Novye
sinteticheskie materialy na osnove furanovykh soedinenii.
Tashkent, Gosizdat UzSSR, 1963. 45 p. (MIRA 17:11)

BYCHEVOY, I.F., veterinarnyy vrach

Treating edema in young pigs. Veterinariia 40 no.10:44-45 0'63.

(MIRA 17:5)

1. Zaveduyushchiy Novoropskim veterinarnym uchastkom,
Bryanskoy oblasti.

PROSHLYAKOV, A.I.; ZHELEZNYKH, V.I.; BYCHEVSKIY, B.V.; ZOTOV, V.F.;
LYAMIN, N.I.; IVANOV, D.S.; BLAGOSLAVOV, B.V.; BARANOV, N.P.
PANKOV, M.A.; OGORODNIKOV, V.A.; FILONENKO-BORODICH, M.M.;
IL'YASEVICH, S.A.; RABINOVICH, I.M.; OLISOV, B.A.; DAVYDOV,
S.S.; ZIMIN, D.D.; SHPERK, B.F.; USKOV, V.N.; BUZNIK, P.K.

Boris Aleksandrovich Olivetskii; obituary. Voen.-inzh.zhur.
101 no.12:42 D '57.

(MIRA 10:12)

(Olivetskii, Boris Aleksandrovich, 1896-1957)

MOZGOVOY, A.A., doktor biolog.nauk; RYCHIKHIN, M.T., veterinarnyy vrach

Carbon tetrachloride treatment of echinuriasis in ducks.
Veterinariia 36 no.7:44 J1 '59. (MIRA 12:10)

1. Gel'mintologicheskaya laboratoriya Akademii nauk SSSR.
(Parasites--Ducks) (Carbon tetrachloride)

BYCHIKHIN, N.P.

Hand injuries caused by fish spines in fishermen of the trawling
fleet. Vop. ikht. 3 no.2:396-401 '63. (MIRA 16:7)

1. Klinika obshchey khirurgii Arkhangel'skogo meditsinskogo instituta.
(Fishermen—Diseases and hygiene)

BYCHIKHIN, N.P.

Etiology of suppurative diseases of the hand and fingers in workers of the fishing industry in the basin of the Arctic Ocean. Sov.med. 28 no.7:130-134 JI '65. (MIRA 18:8)

1. Kafedra obshchey khirurgii (zav. - zasluzhennyy deyatel' nauki RSFSR prof. G.A.Orlov) Arkhangel'skogo meditsinskogo instituta.

BYCHIKHIN, V.T.; PANFILOV, Ye.G.; GROMOV, R.A.

Industrial training of ninth graders. Politekh.obuch. no.11:
17-22 N '58. (MIRA 11:12)
(Moscow--Field work (Educational method))

BYCHIKHINA, L.S.; VIL'NYANSKIY, Ya.Ye.; SAVINKOVA, Ye.I.

Gasometric method of determining the hydrogen content in products
of the partial hydrolysis of carnallite and magnesium chloride.
Izv. vys. ucheb. zav.; tsvet. met. 5 no.2:100-103 '62.

(MIRA 15:3)

1. Ural'skiy politekhnicheskiy institut, kafedra tekhnologii
neorganicheskikh veshchestv.

(Metals--Hydrogen content) (Magnesium--Metallurgy)